

WHAT IS CLAIMED IS:

1. An image processing method, which creates a table for separating color into color of coloring agent available in an image formation apparatus,

5 characterized in that:

a maximum line in a color reproduction region of the image formation apparatus is defined;

internal lines in the color reproduction region of the image formation apparatus are defined; and

10 interpolation processing is executed on the basis of the maximum line and the internal lines, thereby creating the table.

2. An image processing method, which creates a

15 table for separating color into color of coloring agent available in an image formation apparatus,

characterized in that:

a first line from black to white is defined;

plural second lines from white to primary color

20 and secondary color are defined,

plural third lines from the primary color and the secondary color to black are defined; and

the table is created according to the first line, the second lines and the third lines.

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3. A method according to Claim 2, wherein it is possible to control ink dyeing points on the first line

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and the third lines.

4. A method according to Claim 3, wherein the
control of the ink dyeing points is performed on the
5 basis of a manual instruction by a user.

5. A method according to Claim 2, wherein a start
of dyeing dark coloring agent on the first line, the
second lines and the third lines is controlled in an
10 image processing method which creates a table of an
image formation apparatus for performing an image
formation using plural coloring agents having different
density for the same color.

15 6. A method according to Claim 2, wherein a
coloring agent quantity contour line is calculated on
the basis of the coloring agent quantity on each side
of a plane defined by the plural coloring agents.

20 7. A method according to Claim 6, wherein non-
linear curve approximation processing is used in case
of forming the coloring agent quantity contour line.

25 8. A method according to Claim 2, wherein a cube
indicating a color space is divided into plural
tetrahedrons, and interpolation processing is executed
by connecting points having the same coloring agent

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quantity on three sides of each triangle indicating side planes of the divided tetrahedrons.

9. An image processing apparatus, which creates a
table for separating color into color of coloring agent
available in an image formation apparatus, comprising:
means for defining a first line which is from
white to black;

means for defining plural second lines which are
10 from white to primary color and secondary color;
means for defining plural third lines which are
from the primary color and the secondary color to
black; and
means for creating the table according to the
15 first line, the second lines and the third lines.

10. A program for realizing an image processing method which creates a table for separating color into color of coloring agent available in an image formation apparatus characterized in that

20 a first line from black to white is defined;

plural second lines from white to primary color and secondary color are defined;

25 plural third lines from the primary color and the secondary color to black are defined; and

the table is created according to the first line, the second lines and the third lines.